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(71) Applicant(s)  
Geco A.S.

(Incorporated in Norway)

Bjergstedveien 1, P.O. Box 330, N-4001 Stavanger,  
Norway

(72) Inventor(s)  
Ali Ozbeck

(74) Agent and/or Address for Service  
Keith W Nash & Co  
90-92 Regent Street, Cambridge, CB2 1DP,  
United Kingdom

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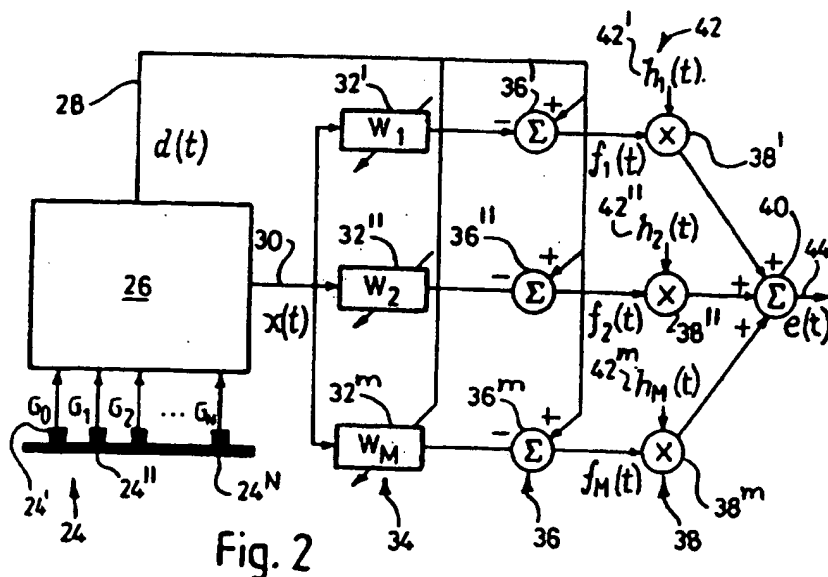
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None

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## (54) Seismic noise filtering method

(57) A method for filtering noise from discrete noisy seismic signals in a time interval  $([1, ..., T])$  is provided said method comprising the steps of

- using said noisy seismic signals for determining at least one reference channel  $(x(t))$  for said time interval as an estimate of said noise;
- determining coefficients for  $M$  temporally local filters  $(w(i,t))$ , said filters forming a filter bank, and  $M$  being a number equal to or larger than two, by minimizing a cost function  $(J(t))$  representing a measure of the error of the output of said filter bank; and
- applying said filter bank to said at least one estimate  $(x(t))$  to determine  $M$  filtered estimates of said noise. The filtered estimates are multiplied with temporal windows  $(h(i,t))$ .



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